

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S85	178	("polyvinyl alcohol" OR "poly vinyl alcohol") WITH casing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:45
S86	123	(US-20020065364-\$ or US-20060051466-\$ or US-20040062889-\$ or US-20030059502-\$ or US-20020039611-\$ or US-20030055181-\$ or US-20030039724-\$ or US-20040146610-\$ or US-20040247752-\$).did. or (US-4442868-\$ or US- 6294263-\$ or US- 4528225-\$ or US- 6660315-\$ or US- 6231970-\$ or US- 5399427-\$ or US- 4253879-\$ or US- 4303711-\$ or US- 4396039-\$ or US- 4529634-\$ or US- 5215495-\$ or US- 5501886-\$ or US- 5597587-\$ or US- 5662971-\$ or US- 6033698-\$ or US- 5855634-\$ or US- 5834067-\$ or US- 5705214-\$ or US- 5273481-\$ or US- 5089307-\$ or US- 4958477-\$ or US- 4924552-\$ or US- 4910034-\$ or US- 4802511-\$ or US- 4734956-\$ or US- 4719116-\$).did. or (US- 4649962-\$ or US- 4648428-\$ or US- 4621482-\$ or US- 4563792-\$ or US- 4487231-\$ or US- 4470171-\$ or US- 4401135-\$ or US- 3799823-\$ or US-	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/12/31 17:45

6821588-\$ or US-  
3852224-\$ or US-  
4125631-\$ or US-  
4243074-\$ or US-  
4764406-\$ or US-  
4892765-\$ or US-  
5084310-\$ or US-  
5480690-\$ or US-  
5698279-\$ or US-  
5747124-\$ or US-  
5928738-\$ or US-  
5994445-\$ or US-  
6395356-\$ or US-  
4786512-\$ or US-  
4851245-\$ or US-  
6764753-\$ or US-  
4756914-\$ or US-  
4778639-\$ or US-  
4781931-\$).did. or (US-  
5230933-\$ or US-  
6251449-\$ or US-  
6245369-\$).did. or (DE-  
4303711-\$ or DE-  
4401135-\$ or WO-  
9732482-\$).did. or (US-  
6231970-\$ or DE-  
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10124581-\$ or EP-  
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941837-\$ or GB-  
2295658-\$ or DE-  
4141292-\$ or DE-  
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8315855-\$ or BE-  
861282-\$ or NL-  
7908391-\$ or EP-58240-  
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US-5215495-\$ or DE-  
4303711-\$ or WO-  
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5834067-\$ or WO-  
9524835-\$ or DE-  
4401135-\$).did. or (US-  
5273481-\$ or EP-  
400484-\$ or US-  
4924552-\$ or US-  
4734956-\$ or US-  
4719116-\$ or EP-  
198486-\$ or EP-185376-

		\$ or DE-3431521-\$ or EP-143967-\$ or EP-166226-\$ or EP-105446-\$ or DE-3236553-\$ or EP-101986-\$ or EP-37543-\$ or US-3799823-\$ or DE-19822979-\$ or WO-9831731-\$ or DE-3426723-\$ or EP-450435-\$ or WO-0075220-\$ or WO-0200026-\$ or WO-02054878-\$ or JP-2002307626-\$ or WO-02082913-\$ or WO-03029101-\$ or US-20040062834-\$ or DE-19608001-\$).did. or (JP-57061036-\$).did.				
S87	7	S86 AND ("polyvinyl alcohol" OR "poly vinyl alcohol") WITH casing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:46
S88	4	S86 AND ("polyvinyl alcohol" OR "poly vinyl alcohol") WITH casing SAME water	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:46
S89	77	("polyvinyl alcohol" OR "poly vinyl alcohol") WITH casing SAME water	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:47
S90	37	("polyvinyl alcohol" OR "poly vinyl alcohol") WITH casing SAME water WITH soluble	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:47
S91	8	robert WITH wilfer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:55
S92	1	robert WITH wilfer AND PVAL	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:57
S93	0	"80.degree. C. is at least 20 g/l"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:57
S94	0	"80" WITH degreeWITH "at least 20 g/l"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:58
S95	971	solubility WITH "vinyl alcohol"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:59

S96	51	solubility WITH "vinyl alcohol" SAME saponification	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 17:59
S97	0	solubility WITH "vinyl alcohol" SAME saponification AND sausage	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:00
S98	0	solubility WITH "vinyl alcohol" SAME saponification AND casing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:00
S99	51	solubility WITH "vinyl alcohol" SAME saponification	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:00
S100	190	solubility WITH "Poly (vinyl alcohol)" SAME saponification	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:00
S101	26	solubility WITH "Poly (vinyl alcohol)" SAME saponification AND food	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:01
S102	0	solubility WITH "Poly (vinyl alcohol)" SAME saponification AND sausage	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:01
S103	7	solubility WITH "Poly (vinyl alcohol)" AND sausage	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:01
S104	4	solubility.CLM. AND "Poly (vinyl alcohol)".CLM. AND casing.CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:03
S105	971	"vinyl alcohol" WITH solubility	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:07
S106	6	"vinyl alcohol" WITH solubility AND casing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:07
S107	5	liquid WITH smoke WITH food WITH facing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:13
S108	1	2005-081906.NRAN.	DERWENT	OR	ON	2010/12/31 18:14
S109	0	EP-0473091-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:20
S110	2	EP-473091-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:20

S111	2	"5288532".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/12/31 18:21
S112	143	(US-20020065364-\$ or US-20060051466-\$ or US-20040062889-\$ or US-20030059502-\$ or US-20020039611-\$ or US-20030055181-\$ or US-20030039724-\$ or US-20040146610-\$ or US-20040247752-\$ or US-20100120658-\$ or US-20100047417-\$ or US-20060188615-\$ or US-20060134279-\$ or US-20050202130-\$ or US-20060233983-\$ or US-20070166489-\$ or US-20060127538-\$ or US-20040097901-\$).did. or (US-4442868-\$ or US- 6294263-\$ or US- 4528225-\$ or US- 6660315-\$ or US- 6231970-\$ or US- 5399427-\$ or US- 4253879-\$ or US- 4303711-\$ or US- 4396039-\$ or US- 4529634-\$ or US- 5215495-\$ or US- 5501886-\$ or US- 5597587-\$ or US- 5662971-\$ or US- 6033698-\$ or US- 5855634-\$ or US- 5834067-\$ or US- 5705214-\$ or US- 5273481-\$ or US- 5089307-\$ or US- 4958477-\$ or US- 4924552-\$ or US- 4910034-\$ or US- 4802511-\$ or US- 4734956-\$ or US- 4719116-\$).did. or (US- 4649962-\$ or US- 4648428-\$ or US- 4621482-\$ or US- 4563792-\$ or US- 4487231-\$ or US- 4470171-\$ or US- 4401135-\$ or US- 3799823-\$ or US-	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2011/01/01 14:01

6821588-\$ or US-  
3852224-\$ or US-  
4125631-\$ or US-  
4243074-\$ or US-  
4764406-\$ or US-  
4892765-\$ or US-  
5084310-\$ or US-  
5480690-\$ or US-  
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5747124-\$ or US-  
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6395356-\$ or US-  
4786512-\$ or US-  
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6764753-\$ or US-  
4756914-\$ or US-  
4778639-\$ or US-  
4781931-\$).did. or (US-  
5230933-\$ or US-  
6251449-\$ or US-  
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4278694-\$ or US-  
5288532-\$).did. or (DE-  
4303711-\$ or DE-  
4401135-\$ or WO-  
9732482-\$ or WO-  
2005002848-\$ or WO-  
3103405-\$ or DE-  
10225619-\$ or EP-  
473091-\$).did. or (US-  
6231970-\$ or DE-  
10302960-\$ or DE-  
10124581-\$ or EP-  
1193295-\$ or EP-  
1125504-\$ or EP-  
941837-\$ or GB-  
2295658-\$ or DE-  
4141292-\$ or DE-  
3228514-\$ or AU-  
8315855-\$ or BE-  
861282-\$ or NL-  
7908391-\$ or EP-58240-  
\$ or DE-3227920-\$ or  
US-5215495-\$ or DE-  
4303711-\$ or WO-  
9313670-\$ or EP-  
635212-\$ or EP-638241-  
\$ or EP-733306-\$ or JP-  
2000140339-\$ or JP-  
2000001138-\$ or US-  
5855634-\$ or US-

		5834067-\$ or WO- 9524835-\$ or DE- 4401135-\$).did. or (US- 5273481-\$ or EP- 400484-\$ or US- 4924552-\$ or US- 4734956-\$ or US- 4719116-\$ or EP- 198486-\$ or EP-185376- \$ or DE-3431521-\$ or EP-143967-\$ or EP- 166226-\$ or EP-105446- \$ or DE-3236553-\$ or EP-101986-\$ or EP- 37543-\$ or US-3799823- \$ or DE-19822979-\$ or WO-9831731-\$ or DE- 3426723-\$ or EP- 450435-\$ or WO- 0075220-\$ or WO- 0200026-\$ or WO- 02054878-\$ or JP- 2002307626-\$ or WO- 02082913-\$ or WO- 03029101-\$ or US- 20040062834-\$ or DE- 19608001-\$).did. or (JP- 57061036-\$ or WO- 2005002848-\$ or US- 20060188615-\$ or EP- 473091-\$).did.				
S113	31	S112 AND "liquid smoke"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 14:01
S114	17	S112 AND "liquid smoke" WITH impregnated	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 14:02
S115	143	(US-20020065364-\$ or US-20060051466-\$ or US-20040062889-\$ or US-20030059502-\$ or US-20020039611-\$ or US-20030055181-\$ or US-20030039724-\$ or US-20040146610-\$ or US-20040247752-\$ or US-20100120658-\$ or US-20100047417-\$ or US-20060188615-\$ or US-20060134279-\$ or US-20050202130-\$ or US-20060233983-\$ or US-20070166489-\$ or US-20060127538-\$ or	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2011/01/01 16:48

US-20040097901-\$.did.  
or (US-4442868-\$ or US-  
6294263-\$ or US-  
4528225-\$ or US-  
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6231970-\$ or US-  
5399427-\$ or US-  
4253879-\$ or US-  
4303711-\$ or US-  
4396039-\$ or US-  
4529634-\$ or US-  
5215495-\$ or US-  
5501886-\$ or US-  
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5662971-\$ or US-  
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5273481-\$ or US-  
5089307-\$ or US-  
4958477-\$ or US-  
4924552-\$ or US-  
4910034-\$ or US-  
4802511-\$ or US-  
4734956-\$ or US-  
4719116-\$.did. or (US-  
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4648428-\$ or US-  
4621482-\$ or US-  
4563792-\$ or US-  
4487231-\$ or US-  
4470171-\$ or US-  
4401135-\$ or US-  
3799823-\$ or US-  
6821588-\$ or US-  
3852224-\$ or US-  
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4892765-\$ or US-  
5084310-\$ or US-  
5480690-\$ or US-  
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4851245-\$ or US-  
6764753-\$ or US-  
4756914-\$ or US-  
4778639-\$ or US-  
4781931-\$.did. or (US-  
5230933-\$ or US-



6251449-\$ or US-  
6245369-\$ or US-  
3653928-\$ or US-  
3658560-\$ or US-  
4248900-\$ or US-  
4278694-\$ or US-  
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4303711-\$ or DE-  
4401135-\$ or WO-  
9732482-\$ or WO-  
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3103405-\$ or DE-  
10225619-\$ or EP-  
473091-\$).did. or (US-  
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10124581-\$ or EP-  
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2295658-\$ or DE-  
4141292-\$ or DE-  
3228514-\$ or AU-  
8315855-\$ or BE-  
861282-\$ or NL-  
7908391-\$ or EP-58240-  
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US-5215495-\$ or DE-  
4303711-\$ or WO-  
9313670-\$ or EP-  
635212-\$ or EP-638241-  
\$ or EP-733306-\$ or JP-  
2000140339-\$ or JP-  
2000001138-\$ or US-  
5855634-\$ or US-  
5834067-\$ or WO-  
9524835-\$ or DE-  
4401135-\$).did. or (US-  
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400484-\$ or US-  
4924552-\$ or US-  
4734956-\$ or US-  
4719116-\$ or EP-  
198486-\$ or EP-185376-  
\$ or DE-3431521-\$ or  
EP-143967-\$ or EP-  
166226-\$ or EP-105446-  
\$ or DE-3236553-\$ or  
EP-101986-\$ or EP-  
37543-\$ or US-3799823-  
\$ or DE-19822979-\$ or  
WO-9831731-\$ or DE-  
3426723-\$ or EP-  
450435-\$ or WO-  
0075220-\$ or WO-

		0200026-\$ or WO- 02054878-\$ or JP- 2002307626-\$ or WO- 02082913-\$ or WO- 03029101-\$ or US- 20040062834-\$ or DE- 19608001-\$).did. or (JP- 57061036-\$ or WO- 2005002848-\$ or US- 20060188615-\$ or EP- 473091-\$).did.				
S116	13	S115 AND "heat set"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 16:49
S117	26	S115 AND seamless	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 16:53
S118	96	S115 AND food	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 17:14
S119	90	S115 AND tubular	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 17:19
S120	165	("2573956"   "2607696"   "2819488"   "2926154"   "2988451"   "3106473"   "3366710"   "3378379"   "3425981"   "3447939"   "3594857"   "3617312"   "3619854"   "3766603"   "3873741"   "3898348"   "3988804"   "4104408"   "4163463"   "4171381"   "4185358"   "4196220"   "4219574"   "4243074"   "4248900"   "4278694"   "4287217"   "4303711"   "4347332"   "4396039"   "4401135"   "4401136"   "4410011"   "4427825"   "4434529"   "4442868"   "4468427"   "4481254"   "4500677"   "4519801"   "4601424"   "4659599"   "4678684"   "4784863"   "4847145"   "4851245"   "4865901"   "4877626"   "4906495"   "4908272"   "4997690"   "5096754"   "5547765"   "5716696"   "5743792"   "5843504"   "5955180"   "6054155"   "Re33093").PN. OR	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/01 17:31

		("2002/0065364"   "2003/0039724"   "2003/0059502"   "4442868"   "4528225"   "4764406"   "5288532"   "5501886"   "6245369"   "6294263").URPN.				
S121	2	S120 AND "acidic smoke"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 17:32
S122	53	("1631723"   "2179181"   "2477767"   "2477768"   "2521101"   "2984574"   "3451827"   "3454981"   "3454982"   "3461484"   "3898348"   "3988804"   "4104408"   "4137947"   "4154866"   "4278694"   "4356218"   "4431032"   "4442868"   "4446167"   "4504501"   "4504507"   "4511613"   "4540613"   "4604309"   "4751097"   "4818551"   "4834993"   "4889751"   "4933217"   "4994297"   "5030464"   "5230933"   "5637339"   "5681603"   "5690977"   "5840362"   "6153234").PN. OR ("6261623"   "7001635").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/01 17:32
S123	0	S122 AND "acidic smoke"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 17:32
S124	17	S122 AND acidic WITH smoke	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 17:32
S125	17	S122 AND acidic WITH smoke AND casing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/01/01 17:33

**EAST Search History (Interference)**

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